

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Therron Powell and Kenneth W.

Stufflebean

Confirmation No.: Not Yet Assigned

Application No.: Herewith

Group Art Unit: Not Yet Assigned

Filing Date: Herewith

Examiner: Not Yet Assigned

**For: SYSTEM AND METHOD FOR STORAGE POWER, THERMAL AND
ACOUSTIC MANAGEMENT IN SERVER SYSTEMS**

**EXPRESS MAIL LABEL NO: EL999282321US
DATE OF DEPOSIT: April 14, 2004**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or

before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with the first or second After Final Submission, therefore:
 - Certification in Accordance with § 1.97(e) is attached; or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:
 - Certification in Accordance with § 1.97(e) is attached; or
 - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

EXCEPT THAT:

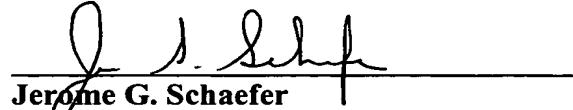
- In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No.

, filed .

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: April 14, 2004



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Form PTO-1449 Modified		Docket No. MSFT-2933/306027.01	Application No. Herewith
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Therron Powell and Kenneth Stufflebean	
U.S. Department of Commerce Patent and Trademark Office		Filing Date Herewith	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Benini, L. et al., "System-Level Power Optimization: Techniques and Tools", <i>ACM Transactions on Design Automation of Electronic Systems</i> , April 2000, 5(2), 115-192	
	2	Carrera, E.V. et al., "Conserving Disk Energy in Network Servers", <i>Proceedings of the 17th Annual International Conference on Supercomputing</i> , 2003, 86-97	
	3	Chase, J.S. et al., "Managing Energy and Server Resources in Hosting Centers", <i>ACM SIGOPS Operating Systems Review</i> , 2001, 35(5), 103-116	
	4	Colarelli, D. et al., "Massive Arrays of Idle Disks for Storage Archives", <i>Proceedings of the 2002 ACM/IEEE Conference on Supercomputing</i> , 1-11	
	5	Gurumurthi, S. et al., "Interplay of Energy and Performance for Disk Arrays Running Transaction Processing Workloads", <i>Proceedings of the International Symposium on Performance Analysis of Systems and Software (ISPASS)</i> , March 2003, 10 pages	
	6	Gurumurthi, S. et al., "DRPM: Dynamic Speed Control for Power Management in Server Class Disks", <i>ACM SIGARCH Computer Architecture News</i> , <i>Proceedings of the 30th Annual International Symposium on Computer Architecture</i> , 2003, 31(2), 11 pages	
	7	Irani, S. et al., "Online Strategies for Dynamic Power Management in Systems with Multiple Power-Saving States", <i>ACM Transactions on Embedded Computing Systems</i> , August 2003, 2(3), 325-346	
	8	Lelii, S.R., "Firefly Powers Down Disk Drives", http://crn.channelsupersearch.com/news/var/39491.asp , 2 pages	
	9	Ramanathan, D. et al., "Latency Effects of System Level Power Management Algorithms", <i>Proceedings of the 2000 IEEE/ACM International Conference on Computer-aided Design</i> , 2000, 350-356	
EXAMINER		DATE CONSIDERED	